

Title (en)
METHOD AND SYSTEM FOR GAS DETECTION

Title (de)
VERFAHREN UND SYSTEM ZUR GASDETEKTION

Title (fr)
PROCÉDÉ ET SYSTÈME DE DÉTECTION DE GAZ

Publication
EP 2788751 A1 20141015 (EN)

Application
EP 12813075 A 20121205

Priority
• GB 201120870 A 20111205
• GB 2012053020 W 20121205

Abstract (en)
[origin: GB2497295A] A gas sensor for determining a concentration of a predetermined gas in a measurement volume E comprises light source C and detector J to receive light passed through the measurement volume. During a first measurement period, the detector makes a first measurement of an amount of light received in at least one wavelength band absorbed by the gas. The first measurement is compared to a predetermined threshold value. If the threshold is crossed, during a second measurement period the detector makes a second measurement of an amount of light received in at least one wavelength band absorbed by the gas. Gas concentration is calculated using the first and/or second measurement. A sampling rate, the light intensity or emitting surface area of the light source may be varied between first and second measurement periods. A further embodiment specifies a wireless sensor and the second measurement using a greater amount of light than the first.

IPC 8 full level
G01N 21/3504 (2014.01); **G01N 33/00** (2006.01)

CPC (source: EP GB US)
G01N 21/31 (2013.01 - GB); **G01N 21/3504** (2013.01 - EP GB US); **G01N 21/59** (2013.01 - US); **G01N 33/0062** (2013.01 - EP US); **G01N 33/0063** (2013.01 - GB); **G01N 33/0068** (2024.05 - EP); **G01N 33/0068** (2024.05 - US); **G01N 2021/3188** (2013.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
GB 201120870 D0 20120118; **GB 2497295 A 20130612**; EP 2788751 A1 20141015; EP 2788751 B1 20170621; EP 3223012 A1 20170927; EP 3223012 B1 20230726; US 10508988 B2 20191217; US 2014350870 A1 20141127; US 2018217055 A1 20180802; US 9952143 B2 20180424; WO 2013083973 A1 20130613

DOCDB simple family (application)
GB 201120870 A 20111205; EP 12813075 A 20121205; EP 17169889 A 20121205; GB 2012053020 W 20121205; US 201214362945 A 20121205; US 201815926574 A 20180320